

alignment_scores:

Quality: 1117.50 Length: 211
Ratio: 5.588 Gaps: 1
Percent Similarity: 94.787 Percent Identity: 94.787

alignment_block:

US-09-525-998A-12 x AAA95105

Align seq 1/1 to: AAA95105 from: 1 to: 1368

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1 MetGlyLeuSerThrValProAspLeuLeuLeuProLeuValLeuLeuGly 17
|||||
1 ATGGGCTTCTCAAGCTGATGATGATGATGATGATGATGATGATGATGATG 50
17 uLeuLeuValGlyIleTyrProSerGlyValIleGly..... 24
|||||
51 GCTGTGTTGTCGAAATATACGCTGTCAGGCTGATTTGACAGTGGCTGACG 100
30 .....AspSerValCysProIndGlyLysTyrIle 39
|||||
101 TAGGGCAACGGCAACACACACATAGCTGCTGCTGCTGCTGCTGCTGCTG 150
40 HisProGluAsnAsnSerIleCysCysThrIleCysCysHisIleGlyThr 56
|||||
151 CAGGCTTCAAAATATATTCATTGCTGATGATGATGATGATGATGATGATG 200
56 IleuTyrAsnAspCysProGlyProGlyGluAspIleAspCysAspGluC 73
|||||
201 CTGTGATCAATGACATCTCCAGGCTGCGGACGATACGACATGCGGCGT 250
73 yGluSerGlySerPheThrAlaSerGluAsnHisLeuArqHisCysLeu 89
|||||
251 CTGACGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
90 SerCysSerIleCysArgIleGlyGluMetGlyGluValGluLeuSerSer 136
|||||
301 AGCTGCTTCAATGCTGCAAAAGAAATGATGATGATGATGATGATGATG 350
106 sThrValAspArgAspThrValCysGlyCysArgIleGlyGluAsnGlnTyr 123
|||||
351 CACACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 400
123 iSerTyrSerGluAsnLeuPheLeuGlyCysPheAsnGlySerLeuCysLeu 139
|||||
401 ATTATTCACATCAAAAGCTTTCACAGCTGCTGCTGCTGCTGCTGCTGCT 450
140 AsnGlyThrValHisLeuSerCysGlnGluIleGlyGluAsnThrValCys 156
|||||
451 AATGGGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 500
156 rCysHisAlaGlyPhePheLeuArgGluAsnGluCysValSerCysSerA 173
|||||
501 CTGCTGATGACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 550
173 sCysLysLysSerLeuGluCysThrIleCysCysLeuProGlnIleGlu 189
|||||
551 ACTGTACAAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
190 AsnValIleGlyThrGluAspSerGlyThrThr 200
|||||
601 AATGTTAAGGCACTGATGATGATGATGATGATGATGATGATGATGATG 644

```

seq name: US-09-525-998A-12 from: seq: 1 to: 1368

seq_documentation_block:

AAQ20973 standard: DNA: 2062 BP.

AAQ20973;

11-MAY-1992 (first entry)

TNF-alpha binding protein gene.

XX
AC
XX
DE
XX

KW Tumour necrosis factor alpha; autoimmune diseases; cachectin; ss;
extracellular domain.

XX Homo sapiens.

XX Key Location/Qualifiers
CD5 155..1522

FT /*tag= a

FT sig_peptide 155..1274

FT /*tag= b

FT mat_peptide 375..1522

FT /*tag= c

FT misc_feature 473..532

FT /*tag= d

FT /*note= "homologous to probe AAQ20974"

FT misc_feature 242..751

FT /*tag= c

FT /*note= "encodes the extracellular domain of human

TNF alpha receptor"

XX

DN CB2246569-A.

XX

PD 05-FEB-1992.

XX

PF 15-JUN-1990; 90GB-0013410.

XX

PK 15-JUN-1990; 90GB-0013410.

XX

PA (CHAP-) CHARING CROSS SUNDR.

XX

PI Feldman M, Gray P, Turner M, Brennan F;

XX

DR WPI: 1992-043613/06.

XX

DR P-PSDB; AAK20787.

XX

PT New tumour necrosis factor alpha binding protein and polypeptide
- useful in treating cachexia, sepsis and autoimmune diseases
e.g. rheumatoid arthritis

XX

PS Disclosure; Fig 1; 25pp; English.

XX

CC The sequence is that of DNA encoding tumour necrosis factor alpha
binding protein which was obtd. from a human placental cDNA library
in lambda gIII using a probe (AAQ20974). The DNA also encodes the
extracellular domain of human TNF alpha receptor and as such it is
useful for treating diseases where TNF alpha is involved as a
causative agent, e.g. cachexia, sepsis and autoimmune diseases.
Specifically rheumatoid arthritis. See also AAQ20974.

XX

SQ Sequence 2862 BP; 429 A; 616 C; 573 G; 444 T; 0 other;

alignment_scores:

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alignment_block:

US-09-525-998A-12 x AAQ20973

Align seq 1/1 to: AAQ20973 from: 1 to: 2062

1 MetGlyLeuSerThrValProAspLeuLeuLeuProLeuValLeuLeuGly 17

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155 ATGGGCTTCTCAAGCTGATGATGATGATGATGATGATGATGATGATGATG 204

17 uLeuLeuValGlyIleTyrProSerGlyValIleGly..... 29

|||||

205 GCTGTGTTGTCGAAATATACGCTGTCAGGCTGATTTGACAGTGGCTGACG 254

30AspSerValCysProIndGlyLysTyrIle 39

|||||

255 TAGGGCAACGGCAACACACATAGCTGCTGCTGCTGCTGCTGCTGCTGCTG 304

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40 HisProGlnAsnAsnSerIleCysCysThrIysCysHisIysCysIleThrIy 56
|||||
305 CACGCTAAATATATGATGATGATGATGATGATGATGATGATGATGATGAT 354
|||||
56 IleuIyrAsnAspCysProGlyProGlyGlnAspThrAspCysArgGluC 73
|||||
355 CTTCTACAAATGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 404
|||||
73 YsGluSerGlySerPheThrAlaSerGluAspHisLeuAcHisLeuCysLeu 89
|||||
405 GAGACAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 454
|||||
90 SerCysSerIysCysArgIleMetGlyGlnValGlnIleCysSerCysI 106
|||||
455 AGCTGCTCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 504
|||||
106 SthrValAspArgAspThrValCysGlyCysArgCysArgCysGlnIleAla 123
|||||
505 CACAGTGGACCGGACACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 554
|||||
123 AsTyTrpSerGlnAsnLeuPheGlnCysPheAspCysSerLeuCysLeu 139
|||||
555 ATATTGGAGTCAAAACCTTTCCAGTCTTCAATTCACGCTGCTGCTGCTGCT 604
|||||
140 AsnGlyIthrValHisLeuSerCysGlnGlnIysGlnAsnThrValCysTh 156
|||||
605 AATGGAGCGTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 654
|||||
156 PysHisAlaGlyPhePheIleCysArgGlnAsnGlnCysValSerCysSer 173
|||||
655 CAGCTATCAGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 704
|||||
173 SncysLysLysSerLeuGlnCysThrLysLeuCysLeuProGlnIleGly 189
|||||
705 ATGTAACTAAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 754
|||||
190 AsnValIysGlyIthrGluAspSerGlyIthrThr 200
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755 AATGTTAAGGGATGAGGATGAGGATGAGGATGAGGATGAGGATGAGGATG 787
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seq_name: /SIF52/seqdata/3-us-3/ncsseq/NA1302.fai.AA024440
seq_documentation_block:
ID AA024440 standard: DNA: 2062 BP.
XX
AC AA024440:
XX
DI
XX
DE
XX
KW tumour necrosis factor alpha; extracellular binding domain;
KW treatment; pulmonary diseases; septic shock; HIV infection; AIDS;
KW malaria; viral meningitis; graft versus host disease;
KW autoimmune disease; rheumatoid arthritis.
XX
OS Homo sapiens.
XX
FH Key location/Qualifiers
FT CDS 156..1517
FT FT /*tag= a
FT FT /product= human TNF-alpha
FT FT /mat_peptide 1565..1267
FT FT /*tag= b
FT FT /note= "3"
FT FT 1265..1267
FT FT /*tag= c
FT FT /codon= seq."TGG", aa.Thr
FT FT 1258..1266
FT FT /*tag= d
FT FT /codon= Seq"AA", aa.Ile;
FT FT 1433..1435

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FT /*tag= e
FT /*codon= Seq."GAA", aa.Asn
FT seq_peptide 156..274
FT /*tag= f
XX
XX W09207076-A.
XX
XX 30-APR-1992.
XX
XX 19 OCT 1991. 91W09207076.
XX
XX 18-OCT-1990: 90CH-0022648.
XX
XX (CHAR.) CHARING CROSS SUNLEY RES CENT.
XX
XX Brennan JW, Feldman M, Gray PW, Turner MJC.
XX
XX W01.1562.147175710.
XX
XX p-PSDH; AAR24060.
XX
XX New polypeptide capable of binding human TNF-alpha comprises
XX first three cysteine rich subdomains of TNF-alpha receptor for
XX treating autoimmune disease, septic shock, HIV etc.
XX
XX Claim 4: Fig 1: 43pp; English.
XX
XX This sequence encodes human TNF-alpha 55kd receptor. A placent cDNA
XX library in p10 was screened with probe AAC24440. Ten hybridising clones
XX were plaque purified and cDNA size determined by PAGE against an
XX 800 bp directed phage DNA. The inserts of two cDNA clones were then
XX sequenced. The coding region of the majority of the human TNF-alpha
XX 55kd receptor was isolated as an EcoRI fragment encoding 174 amino
XX acids, and cloned into a mammalian cell expression vector, resulting
XX in pTNF. A derivative of the TNF-alpha receptor was produced by
XX engineering a termination codon just prior to the transmembrane
XX domain. PCR with primers AAC24440 and AAC24441 generated a 300bp
XX restriction fragment which was cloned into pTNF, giving pTNFREC.
XX DNA sequencing confirmed this contained the designed RNA sequence.
XX The TNF-alpha receptor expression plasmids were then transfected
XX into HEK293T cells.
XX See also AA024440-51, AAP24400, AA024440-64, AAP24400, AAC24446-8
XX
XX Sequence 2062 BP: 429 A: 618 C: 572 G: 444 T: 0 other:
SQ

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alignment_scores:

Quality: 1117.50 Length: 211
Ratio: 5.588 Gaps: 1
Percent Similarity: 94.297 Percent Identity: 94.287

alignment_block:

US-09-525-998A.12 x AA024440

Align seq 1/1 to: AA024440 from: 1 to: 2062

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1 MetGlyLeuSerThrValProAspLeuLeuLeuLeuLeuLeuLeuLeuLeu 17
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|||||
17 IleuLeuValGlyIleCysProGlyProGlyValIleGlyIleGlyIleGly 29
|||||
205 GTTGTGTTGGGAAATATACCTGCTCAGGCTGCTGCTGCTGCTGCTGCTGCTG 254
|||||
30 .....AspSerValCysProGlnGlyLysTyrlle 39
|||||
255 TACGCGATACGCGATACGCGATACGCGATACGCGATACGCGATACGCGATACG 404
|||||
40 HisProGlnAsnAsnSerIleCysCysThrIysCysHisIysCysIleThrIy 56
|||||
305 CACGCTAAATATATGATGATGATGATGATGATGATGATGATGATGATGAT 354
|||||
56 IleuIyrAsnAspCysProGlyProGlyGlnAspThrAspCysArgGluC 73
|||||

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